

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT OIL CONSERVATION DIVISION

November 3, 1986

TONEY ANAYA GOVERNOR

POST OFFICE BOX 2088 STATE LAND OFFICE BUILDING SANTA FE, NEW MEXICO 87501 (505) 827-5800

Anadarko Production Company P.O. Box 1330 Houston, Texas 77251-1330

Attention: Theresa A. Rausheck Senior Regulatory Assistant

Re: Administrative Order NFL-142

Dear Ms. Rausheck:

Reference is made to your application for an Infill Well Finding and Well-Spacing Waiver made pursuant to Section 271.305(b) of the Federal Energy Regulatory Commission regulations, Natural Gas Policy Act of 1978, and Oil Conservation Division Order No. R-6013 for the following described well:

> E.W. Walden Well No. 14, located 550 feet from the South line and 2125 feet from the West line of Section 15, Township 22 South, Range 37 East, NMPM, Lea County, New Mexico.

#### THE DIVISION FINDS THAT:

(1) Section 271.305(b) of the Federal Energy Regulatory Commission Interim Regulations promulgated pursuant to the Natural Gas Policy Act of 1978 provides that, in order for in infill well to qualify as a new onshore production well under Section 103 of said Act, the Division must find, prior to the commencement of drilling, that the well is necessary to effectively and efficiently drain a portion of the reservoir covered by the proration unit which cannot be so drained by any existing well within that unit, and must grant a waver of existing well-spacing requirements.

(2) By Division Order No. R-6013, dated June 7, 1979, the Division established an administrative procedure whereby the Division Director and the Division Examiners are empowered to act for the Division and find that an infill well is necessary.

(3) The well for which a finding is sought is to be completed in the Penrose Skelly Pool, and the standard spacing unit in said pool is 40 acres. (4) A standard 40-acre oil proration unit comprising the SE/4 SW/4 (Unit N) of Section 15, Township 22 South, Range 37 East, is currently dedicated to the applicant's E.W. Walden Well No. 6 also located in Unit N of said Section.

(5) Said unit is <u>not</u> being effectively and efficiently drained by the existing well(s) on the unit.

(6) The drilling and completion of the well for which a finding is sought should result in the production of additional gas reserves underlying the subject proration unit which would not otherwise be recovered.

(7) All the requirements of Division Order No. R-6013 have been complied with, and the well for which a finding is sought is necessary to effectively and efficiently drain a portion of the reservoir covered by said proration unit which cannot be so drained by any existing well within the unit.

(8) In order to permit effective and efficient drainage of said proration unit, the subject application should be approved as an exception to the standard well spacing requirements for the pool.

#### IT IS THEREFORE ORDERED THAT:

(1) The applicant is hereby authorized to drill the E.W. Walden Well No. 14 as described above, as an infill well on the existing 40-acre oil proration unit comprising the SE/4 SW/4 (Unit N) of Section 15, Township 22 South, Range 37 East, NMPM, Penrose Skelly Pool, Lea County, New Mexico. The authorization for infill drilling granted by this order is an exception to applicable well spacing requirements and is necessary to permit the drainage of a portion of the reservoir covered by said proration unit which cannot be effectively and efficiently drained by any existing well thereon.

(2) Jurisdiction of this cause is retained for the entry of such further orders as the Division may deem necessary.

Sincerely,

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Michael E. Stogner Examiner

N.M.O.C.D. - Hobbs

NFLRKOI

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Michael E. Stogner Examiner

## N.M.O.C.D. - Hobbs

ANADARKO PRODUCTION COMPANY

16855 NORTHCHASE DRIVE • P.O. BOX 1330

HOUSTON, TEXAS 77251-1330



Ruewel 21, 1984 Sept. 21, 1984

19 September 1984

State of New Mexico Energy & Minerals Department 525 Camino de los Marquez Santa Fe, New Mexico 87501

Attention: Michael E. Stogner

Gentlemen:

Enclosed pursuant to Order No. R-6013-A of the New Mexico Oil Conservation Division are (2) two copies of the Infill Finding for the E. W. Walden #14 well.

NFLRKOI

If additional information is required to complete the NGPA Application on this well, please advise.

Sincerely,

ANADARKO PRODUCTION COMPANY

heresa a. Kausheck

Theresa A. Rausheck Senior Regulatory Assistant

Enclosures

TR/lmm

#### NATURAL GAS POLICY ACT Infill Findings

#### E. W. Walden No. 14

#### Rule 5 - Forms C101 & C102 - Attached

Rule 6 - Penrose Skelly Pool 40 Acre Proration Units

Rule 7 - NA

Rule 8A-F - Attached

Rule 8G - The E. W. Walden No. 6 was originally drilled into the upper Grayburg. An attempt to deepen to the lower Grayburg found the casing collapsed. The No. 6 was converted to injection in the Penrose Sand. The upper Grayburg open hole section was also left open. The No. 14 is a replacement well in the Grayburg.

Rule 9A - Structure Map - Attached

B - The ultimate recovery on the No. 14 is estimated to 50 MBO. This was determined through decline curve analysis and volumetrics.

Lease Decline Curve and Porosity Log - Attached

#### Rule 8A-F - Wells drilled on Proration Unit SE/4 SW/4 Section 15, T22S,R37E

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E. W. Walden No. 6
660 FSL & 1980 FWL Section 15, T22S, R37E
Lea County, New Mexico
Spud Date - 3-25-37
Completion Date - 6-14-37
Mechanical Problems - Collapsed Casing
Converted to Water Injection in Penrose & Upper Grayburg - 2-21-73.
Current Injection Rate - 321 BW/PD @ 1375 psi.
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#### INSTRUCTIONS

Li. H. . HALUGIL # 14

Exhibit C

This form is to be filed with the appropriate District Office of the Commission not four than 20 doys after the completion of any newly-drilled or despend well. It shall be accompanied by any copy of all electrics, and reducentivity logs run on the well and a summary of all special tests con-ducted, including drill stan tests. All depths reported shall be measured by the cuse of directionally drilled wells, two vertical depths shall also be reported. For multiple completions, items 30 through 34 shall be reported for each zone. The form is to be filed in quintuplicate except on entits land, where six copies are required. See Rule 1195. 

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T. Queen 5340		T. Puin Lockout					
T. Grayburg 3646	T. Montoys		T. McCracken				
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#### FORMATION RECORD (Attach additional sheets if necessary) •

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If answer is "ves," type of consolidation . 1 Yes No No

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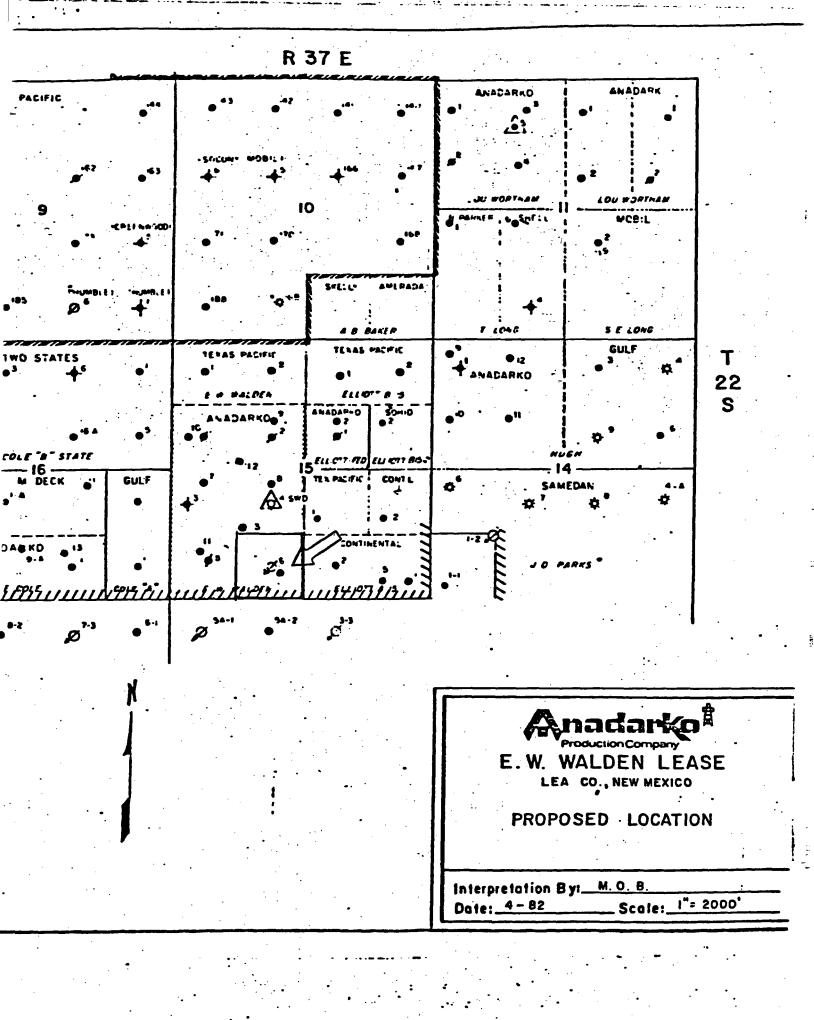
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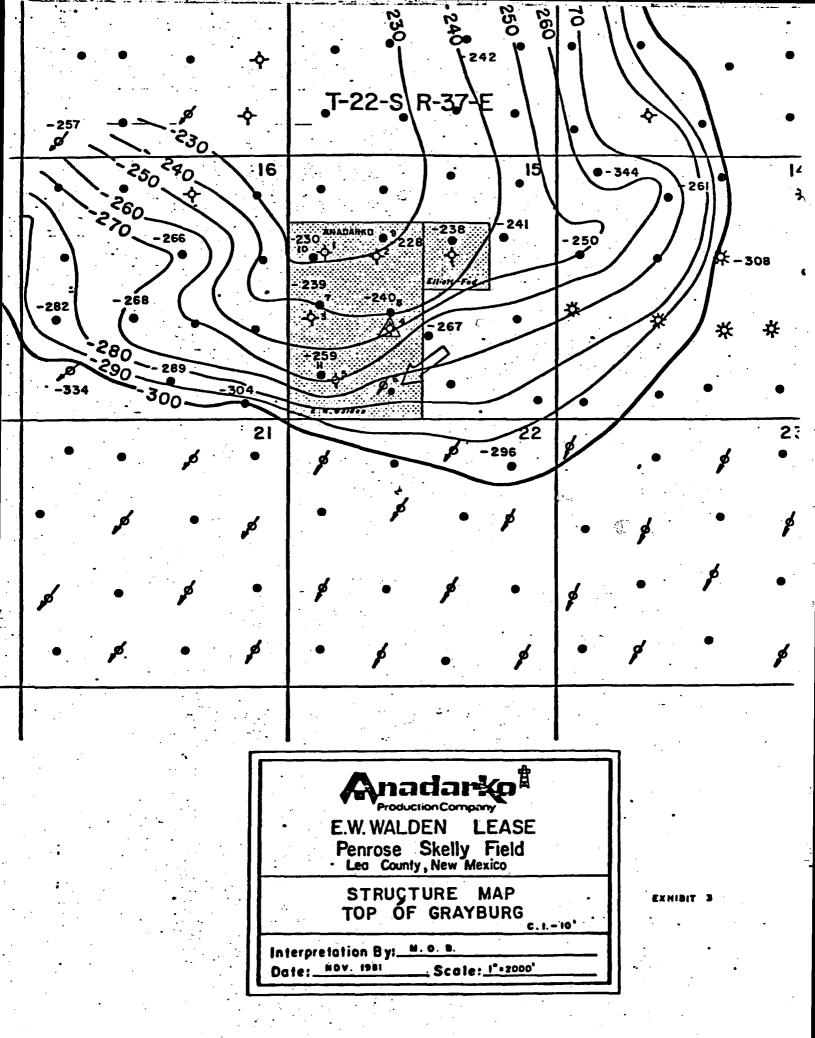
fire and i 33

If answer is "no?" list the owners and tract descriptions which have actually been consolidated of se reverse side o this form if necessary. 9\_

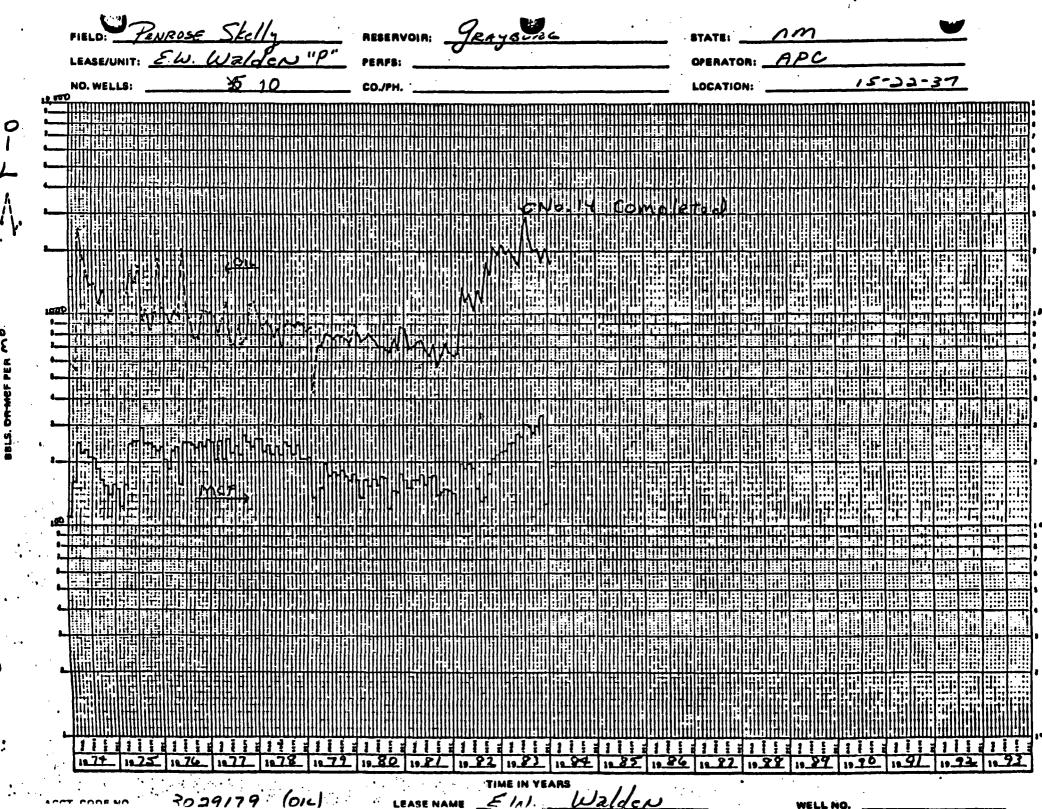
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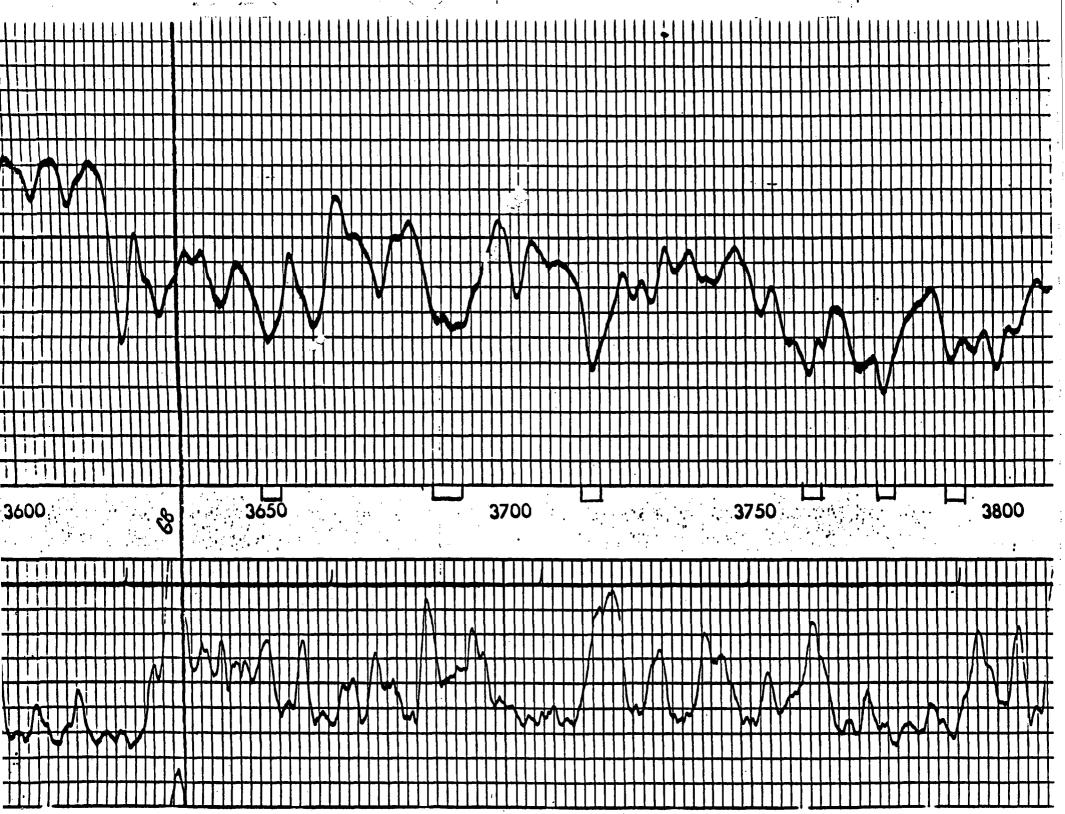
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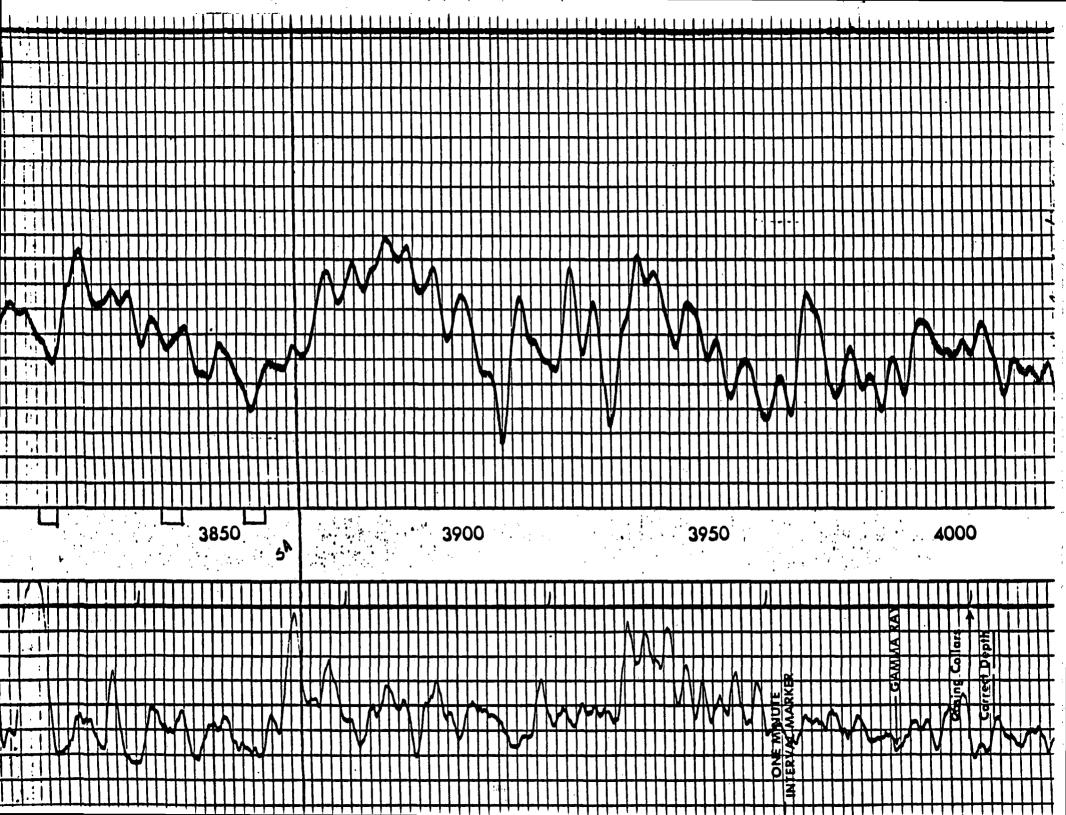


WELL NO.

DUAL SPACED NEUTRONILOG COMPANY A No docko Production Company E.W. Walder # 14 Penrose Skally WELL FIELD\_\_\_\_ COUNTY Lea STATE New Maxico SSO'FSL : Location Other Services: ة. ال 2125' FEL Perts + Top: MARKed COMPANY. Count WEL PEL 22-5 Roe\_ 15 TWD\_ 37-E Sec. 61 Elev.; K.B. 3390.9 3392.9 Elev. Permanent Datum. D.F. NA KS 9 Ft. Above Perm. Datum Log Measured From. KB G.L. 3582. Drilling Measured From Date 5-24-83 Run No. ONE Type Log DSN . . Depth-Driller 1047 Depth-Welex 4049 **Bottom Logged Interval** 4048 Top Logged Interval 2048 **Type Fluid in Hole** water Salinity, PPM CI. NA Density PA Level Foll Max. rec. temp., deg. F. NA **Operating Rig time** C. Paulk **Recorded By** Witnessed by Mr. Zielart **CASING RECORD** BORE-HOLE RECORD RUN To Size From Wgt. To No. Bit From 5-2 4050-15.5 らっっせ ; . . . -**X**--AA. 05847

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#### CERTIFICATE OF SERVICE

This is to certify that I have served upon the below listed Offset operators copies of the Infill Findings as required under Rule 11 of the New Mexico Oil Conservation Division Order No. R-6013-A.

> Gulf Oil Corporation P. O. Box 1635 Houston, Texas 77251

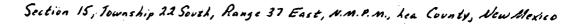
Sun Oil P. O. Box 2880 Dallas, Texas 75221

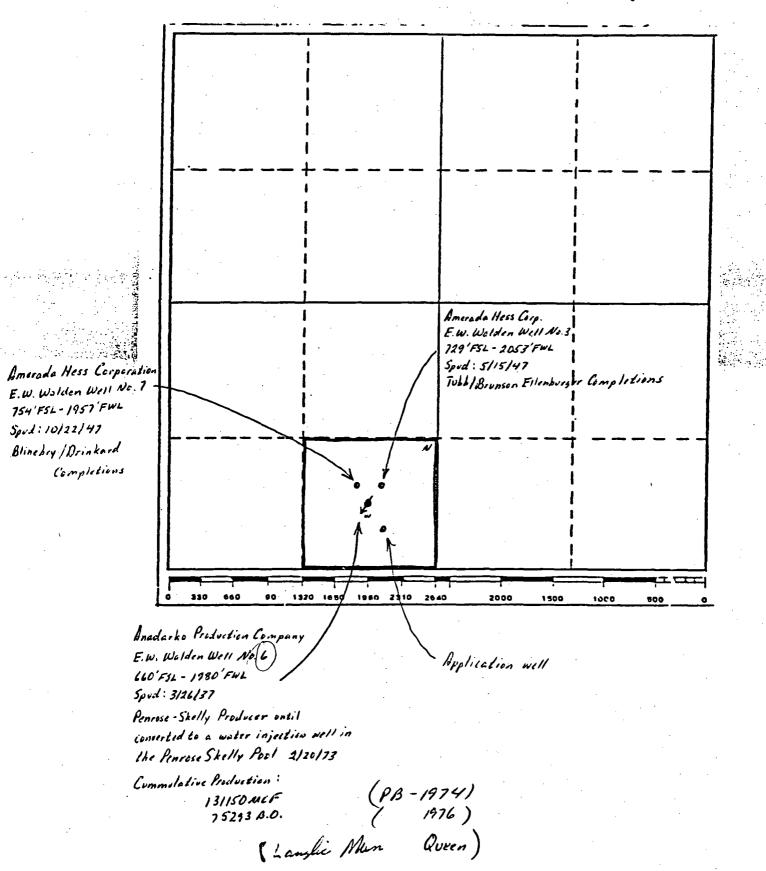
Conoco P. O. Box 2197 Houston, Texas 77252

ANADARKO PRODUCTION COMPANY

Richard J. Peterson

Manager, Hydrocarbon Sales





#### BEFORE THE OIL CONSERVATION COMMISSION OF THE STATE OF NEW MEXICO

IN THE MATTER OF THE HEARING CALLED BY THE OIL CONSERVATION COMMISSION OF NEW MEXICO FOR THE PURPOSE OF CONSIDERING:

> CASE NO. 4760 Order No. R-4374

APPLICATION OF ANADARKO PRODUCTION COMPANY FOR A WATERFLOOD PROJECT, LEA COUNTY, NEW MEXICO.

#### ORDER OF THE COMMISSION

#### BY THE COMMISSION:

This cause came on for hearing at 9 a.m. on August 9, 1972, at Santa Fe, New Mexico, before Examiner Elvis A. Utz.

NOW, on this <u>28th</u> day of August, 1972, the Commission, a quorum being present, having considered the testimony, the record, and the recommendations of the Examiner, and being fully advised in the premises,

FINDS:

(1) That due public notice having been given as required by law, the Commission has jurisdiction of this cause and the subject matter thereof.

(2) That the applicant, Anadarko Production Company, is the operator of the Langlie Mattix Penrose Sand Unit Waterflood Project, Langlie Mattix Pool, Lea County, New Mexico.

(3) That the applicant seeks authority to institute two cooperative waterflood projects adjacent to said waterflood project by injection of water into the Queen and Grayburg formations through two injection wells in Sections 15 and 16, Township 22 South, Range 37 East, NMPM, Penrose Skelly Pool, Lea County, New Mexico.

(4) That the wells in the project areas are in an advanced state of depletion and should properly be classified as "stripper" wells.

(5) That the proposed waterflood projects should result in the recovery of otherwise unrecoverable oil, thereby preventing waste.

(6) That the subject application should be approved and the projects should be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations. -2-CASE NO. 4760 Order No. R-4374

(7) That applicant further requests establishment of an administrative procedure whereby the conversion of additional wells to injection may be approved administratively without a showing of well response to water injection.

#### IT IS THEREFORE ORDERED:

(1) That the applicant, Anadarko Production Company, is hereby authorized to institute two waterflood projects in the Penrose-Skelly Pool, by the injection of water into the Queen and Grayburg formations through the following-described wells in Township 22 South, Range 37 East, NMPM, Lea County, New Mexico:

1	ANADA	RKC	COLE	PENROSE	SKELL	Y WATER	FLOOD 1	PROJECT	
	Well	Nan	18	Well	NO.	Unit	Sec.	Twn.	Rge .
R.	E. Col	e		3		M	16	22 8	37 E
· .	ANADAI	UKO	WALDEN	PENROSE	SKEL	LY WATE	RFLOOD	PROJECT	
	Well	Nan	e	Well	No.	Unit	Sec.	Twn.	Rge.
E.	W. Wal	.den	 L	6		N	15	22 S	37 E

(2) That the subject waterflood projects shall be governed by the provisions of Rules 701, 702, and 703 of the Commission Rules and Regulations.

(3) That monthly progress reports of the waterflood projects herein authorized shall be submitted to the Commission in accordance with Rules 704 and 1120 of the Commission Rules and Regulations.

(4) That the Secretary-Director may approve expansion of the subject waterflood projects to include such additional lands and injection wells in the area of the projects as may be necessary to complete an efficient water injection pattern; that the showing of well response as required by Rule 701 E-5 shall not be necessary before obtaining administrative approval for conversion of additional wells to water injection.

(5) That jurisdiction of this cause is retained for the entry of such further orders as the Commission may deem necessary. -3-CASE NO. 4760 Order No. R-4374

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DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

> STATE OF NEW MEXICO OIL CONSERVATION COMMISSION

BRUCE KING, Chairman

ALEX J. ARMIJO, Member

A. L. PORTER, Jr., Member & Secretary

#### NATURAL GAS POLICY ACT Infill Findings

E. W. Walden No. 14

Rule 5 - Forms C101 & C102 - Attached

Rule 6 - Penrose Skelly Pool 40 Acre Proration Units

Rule 7 - NA

1 . Ta

Rule 8A-F - Attached

Rule 8G - The E. W. Walden No. 6 was originally drilled into the upper Grayburg. An attempt to deepen to the lower Grayburg found the casing collapsed. The No. 6 was converted to injection in the Penrose Sand. The upper Grayburg open hole section was also left open. The No. 14 is a replacement well in the Grayburg.

Rule 9A - Structure Map - Attached

B - The ultimate recovery on the No. 14 is estimated to 50 MBO. This was determined through decline curve analysis and volu-/metrics.

Lease Decline Curve and Porosity Log - Attached

### Rule 8A-F - Wells drilled on Proration Unit SE/4 SW/4 Section 15, T22S,R37E

E. W. Walden No. 6 660 FSL & 1980 FWL Section 15, T22S, R37E Lea County, New Mexico Spud Date - 3-25-37 Completion Date - 6-14-37 Mechanical Problems - Collapsed Casing Converted to Water Injection in Penrose & Upper Grayburg - 2-21-73. Current Injection Rate - 321 BW/PD @ 1375 psi.

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<ul> <li>5 Dhill to 4000"</li> </ul>	V. 19 98 040					•
<b>5.</b> Drill to 4000' <b>6.</b> Run 4000' of 5	ξ", 15.5" Cog 00' {rom sur{	ace.		• .		
5. Drill to 4000' 6. Run 4000' of 5 to put TOC 010	00° from surf	ace.		•••		
5. Drill to 4000" 6. Run 4000" of 5 to put TOC 010 7. Run Garma Ray 1 8. Complete as Gru	00° from surf Neutron Logs.	ace.		· · · · · · · · · · · · · · · · · · ·		
5. Drill to 4000' 6. Run 4000' of 5 to put TOC 010 7. Run Gamma Ray 1	00° from surf Neutron Logs.	ace.			16	ZDAYS
5. Drill to 4000" 6. Run 4000" of 5 to put TOC 010 7. Run Garma Ray 1 8. Complete as Gru	00° from surf Neutron Logs.	ace.	APPR	DVAL VALID	FOR <u>18</u>	DAYS
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Exhibit C ----Nevines 1-1-62 DITANUTION And Instants Type of Love BANTA PE NET MEXICO DIL CONSERVATION COMMISSION F-- [2 8101+ WELL COMPLETION OR RECOMPLETION REPORT AND LOG FILE 1. Sine Oil & Cas Lease No. U.1.C.A. LAND OFFICE OPERATOR 7. Uall Agreement Name A TYPE OF WELL \*\*\*. 区 A Form or Lease None B. TYPE OF COMPLETION :::. PLUE -E.W. Walden OVER 2. Nome of One 6. Well No. Anodarko Production Company 14 10. Field and Poul, or Wildress r Pennose Skelly P.O. Box 806 Funice New Mexico \$\$731 4. Locogne of you . N · \_ LOCATED \_2125 550 FLLY FROM THE WEAT MALT ARTTER 12. County 15 1 .... 22S Lea The South Line of sec. ••• 37E Mad Pag 15. Date T.D. heached 17, Date Compl. (Kendy to Prod.) 18. Elevations (DF. KKB, KT, GK, esc.) 19. Elev. Custaughood 15. Date Syudded 5-11-83 5-20-83 5-28-83 3389.1 GR 3387' 20. Total Depth 21. Hug beck T.D. 23. Intervals . Houry Trois Drilled By . Cable Tuols 22. It Multipier Canud., Itow 4060' 4045' 0-4060' 24. Producing Interval(s), of this completion - Top, botton, Jiame 25. Was Directional Su Linde 3651'-3844' Grayburg Yes 26. Type Electric and Other Logs Run 27, Was Well Cared Dual Spaced Neutron Log No CASING RECORD (Report all strings set in well) 28, WEIGHT LB./FT. DEPTH SET CASING SIZE HOLE SIZE CEMENTING RECORD AMOUNT PULLI 8-578" 24# 1102' 12%" 930 sx Class C 52" 15.5# E 141 4046 7-7/8" 350 sx Light 200 sx Class C 29, LINER RECORD TUBING RECORD 30. TOP HOTTON SIZE SACKS CEMENT SCREEN SIZE DEPTH SET PACKER SET 2-3/8" 3918' 31, Perforation Frecord (Internal, size and number) ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC. 32. AMOUNT AND KIND MATERIAL USED DEPTH INTERVAL 3651-55 3857-63 2 SPF 3651'-3844' Acidized w/3000 nats 15% 3716-201 3686-92 76 holes 3776-801 3761-651 5" holes 3651'-3844' Fractured w/60,000 gals get 3814-18" 3790-94\* 3840-44 fluid w/93,000# 20/40 sand PRODUCTION 33. 65,000# 10/20 sand. Date First Production Production Mothed (Flowing, gas lift, pumping - Size and type pump) Wall Stotus (Prod. or Shurin) :2" 5-28-83 x ]4" x 16' Insert Pump Producing Date of Test Hows Tested Choke &Ize Prud'n. For 01 - HL. Gas - MCF Water - Bbl. Gas-Oll Fello Test Ferlod 24 6-4-83 43 21.9 173 509 Flow Tubleg Press. Calculated 24-Casing Pressure OII - BH. Gm - MCI Voter - Bbl. Oil Growity - API /Corr. 25# 35.7 34. Diaposition of Gas (Sold, used for fuel venied ere.) Test Witnessed My Sold Dale Kelton 35, List of Attacharate Copy of Dual Spaced Neutron Log. it. I boreby contife the the stimute at we an tust older of this firm as true and compilete in the best of my have ledge and brief Field Forman

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# E.W. Walden #14. Exhibit C

#### INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or despend well. It shall be accompanied by any copy of all electrical and radio-activity logs run on the well and a summary of all special tests con-ducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, lines 30 through 36 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105. •••

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7 Rivers 2785	T. Devonien	T. Menefee	T. Madison			
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Grayburg 3646		T. Mancos				
San Andres 3900	T. Simpson	T. Gallup	T. Ignacio Quete			
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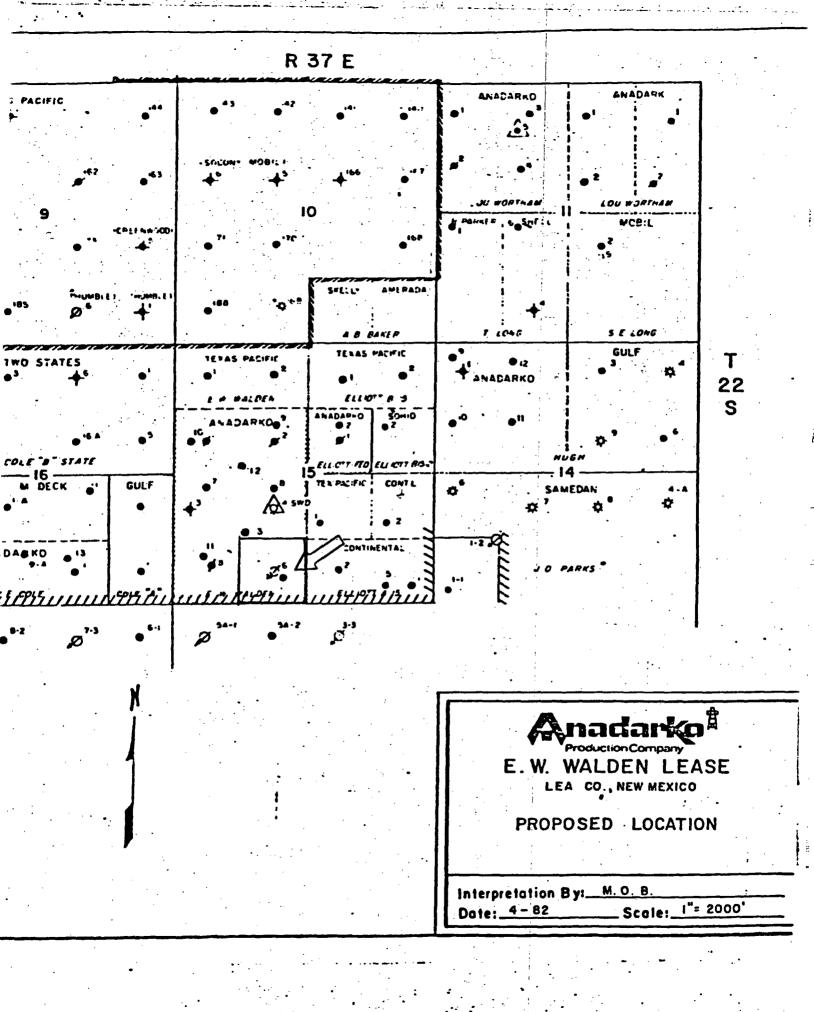
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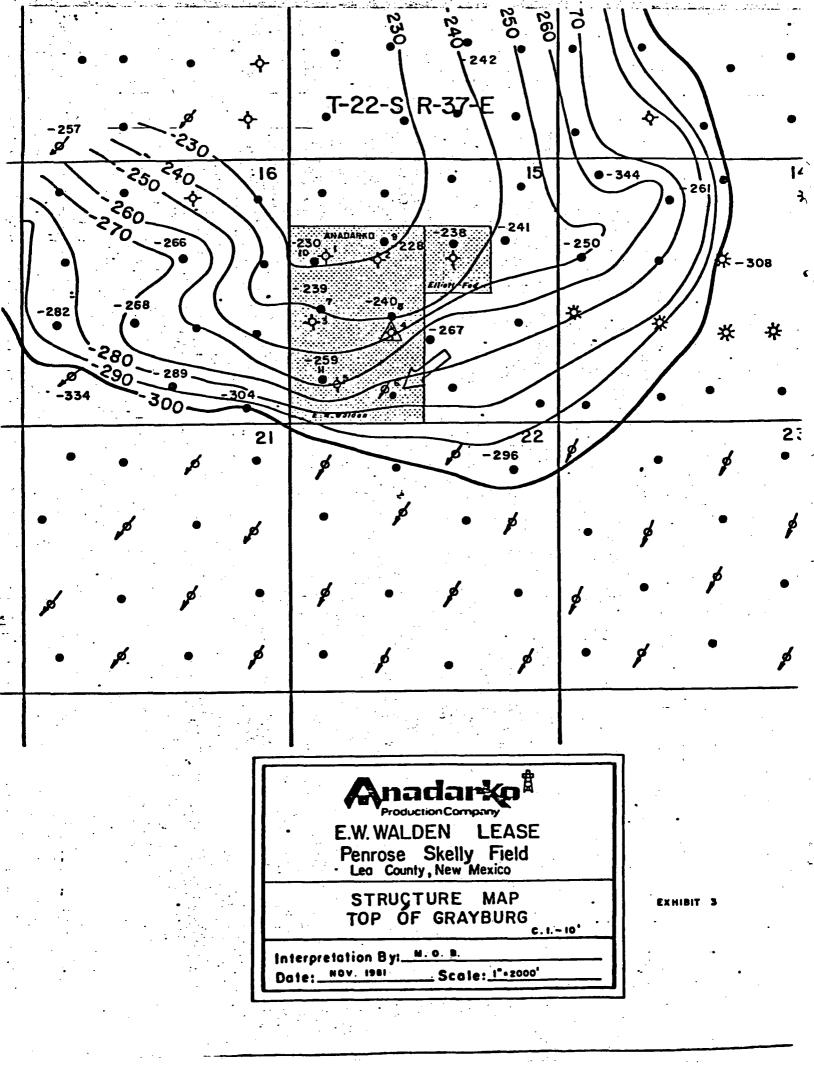
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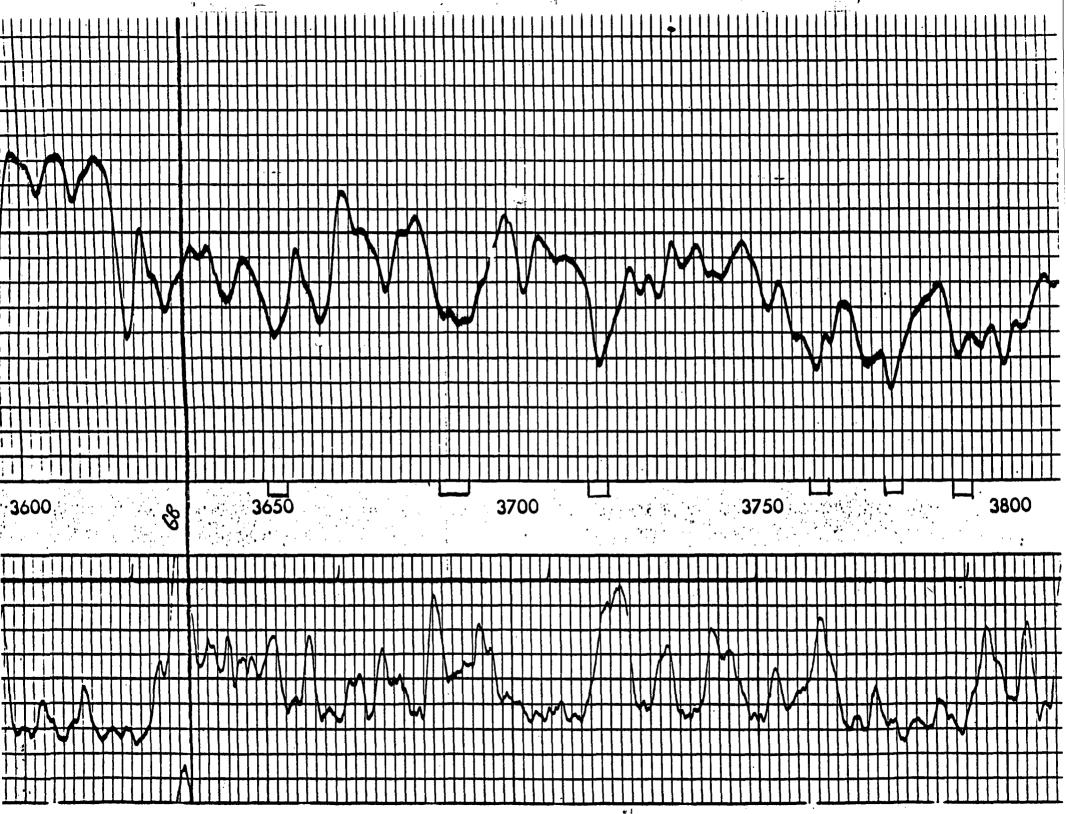
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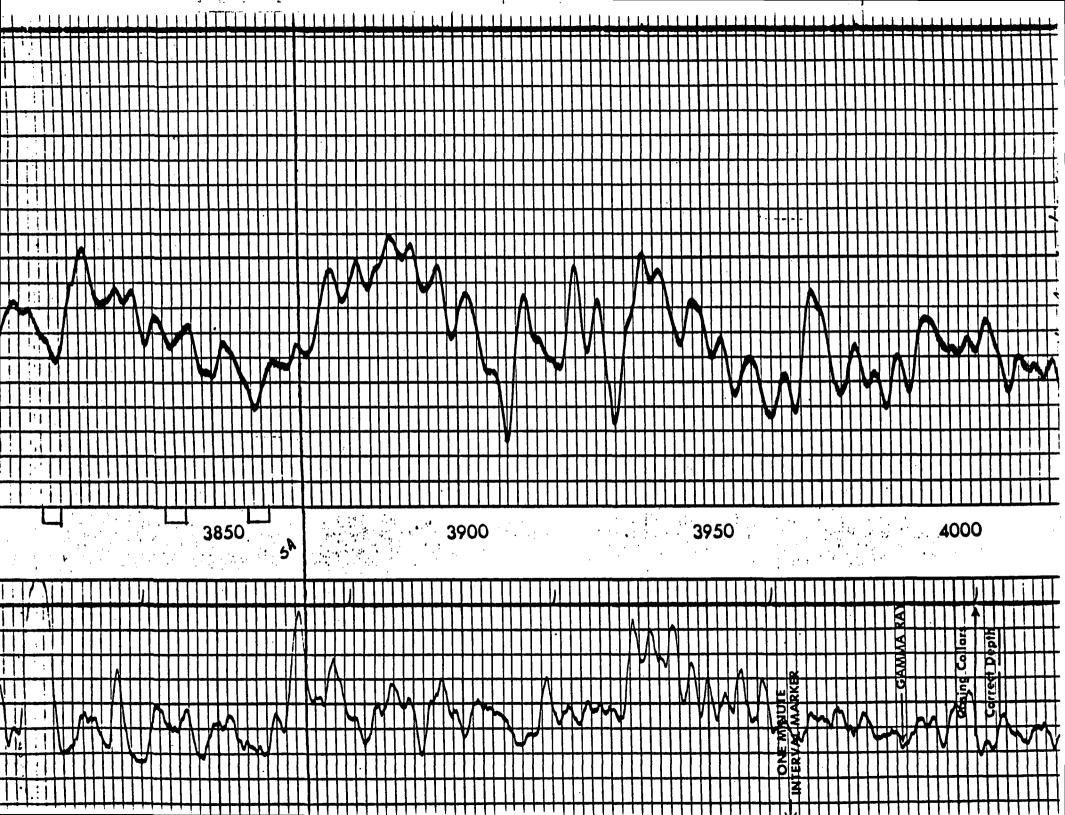
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DUAL SPACED NEUTRON LOG COMPANY A No docka Production Company WELL E. W. Walder # 14 FIELD <u>Penrose Skally</u> ັດ COUNTY Les STATE New Maxico SSO'FSL : 2125' FEL Other Services: Location Jof Ter Perts o 10 MARKER COMPANY FIELD. County WEL 15\_Twp\_22-5\_Rge\_ 37-E Sec. GL 3392.9 Elev.: K.B. 3390.9 Permanent Datum Elev. KS D.F. NA 8 Log Measured From. Ft. Above Perm. Datum KB G.L. 3582.7 Drilling Measured From Date 5-24-83 Run No. ONE Type Log D5N Depth-Driller 4047 Depth-Welex 4047 Bottom Logged Interval 4048 **Top Logged Interval** 2048 **Type Fluid in Hole** woter Salinity, PPM CI. NA Density NA Level Full Max. rec. temp., deg. F. NA **Operating Rig time Recorded By** C. Paulk Witnessed by Zielart **CASING RECORD BORE-HOLE RECORD** RUN То Size Wgt. From No. Bit From То 5-2 <u>{ - - +</u> 15.5 4050ĩ . . • A-AA. 05847 -----مرجعية المرجع فأجرا وتجارية المحوط المرجع والمرجع





#### CERTIFICATE OF SERVICE

This is to certify that I have served upon the below listed Offset operators copies of the Infill Findings as required under Rule 11 of the New Mexico Oil Conservation Division Order No. R-6013-A.

> Gulf Oil Corporation P. O. Box 1635 Houston, Texas 77251

Sun Oil P. O. Box 2880 Dallas, Texas 75221

Conoco P. O. Box 2197 Houston, Texas 77252

ANADARKO PRODUCTION COMPANY

Richard J. Peterson

Manager, Hydrocarbon Sales